

**AMENDMENTS TO THE CLAIMS**

1. (CURRENTLY AMENDED) A blood glucose monitoring system, comprising:

a. a blood glucose monitor for monitoring a blood glucose level and for producing digitally encoded blood glucose signals representative of said blood glucose level;

b. a programmable microprocessor-based portable unit that is separate from the blood glucose monitor, said programmable microprocessor-based portable unit including 1) a video display for displaying information, said video display configured to display graphic and alphanumeric information, 2) a plurality of switches operable for interactively controlling said programmable microprocessor-based portable unit and for manipulating the information displayed on said video display, and 3) a circuit coupled to said plurality of switches for generating video signals in response to the operation of the switches;

c. a digital data storage medium, the medium

A. readable by said programmable micro-processor based microprocessor-based portable unit; and

B. tangibly embodying therein a program of instructions executable by said programmable microprocessor-based portable unit, said program of instructions including instructions for signal processing in response to signals generated based upon